

ABSTRACT:

Cast aluminium alloy, at least consisting of 1.0 - 8.0 % in weight magnesium (Mg), > 1.0 - 4.0 % in weight silicon (Si), 0.01 - < 0.5 % in weight scandium (Sc), 0.005 - 0.2 % in weight titanium (Ti), 0 - 0.5 % in weight of an element or an element group selected from the group consisting of zirconium (Zr), hafnium (Hf), molybdenum (Mo), terbium (Tb), niobium (Nb), gadolinium (Gd), erbium (Er) and vanadium (V), 0 - 0.8 % in weight manganese (Mn), 0 - 0.3 % in weight chromium (Cr), 0 - 1.0 % in weight copper (Cu), 0 - 0.1 % in weight zinc (Zn), 0 - 0.6 % in weight iron (Fe), 0 - 0.004 % in weight beryllium (Be), and the remainder of aluminium with further impurities to an individual max. of 0.1 % in weight and totally maximally 0.5 % in weight.